KBox A-330-RPI





Compact Industrial Box PC based on Raspberry Pi for the Top Hat Rail – For Control & Gateway Applications

- ► Based on BROADCOM BCM2837B0 Quad Core Arm® A53 processor / Raspberry Pi Module CM3+
- Supported by huge community based open source software pool
- ► Fanless compact design for DIN rail, ideal for control cabinet applications
- Industrial grade, available until at least January 2026



KBox A-330-RPI

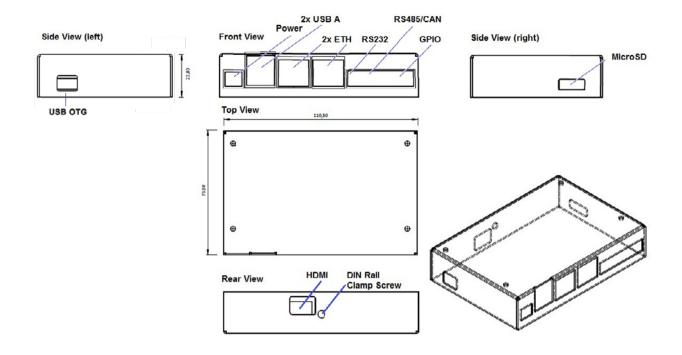
Based on the BROADCOM BCM2837B0 Quad Core Arm® A53 processor/Raspberry Pi Compute Module CM3+ the Kontron KBox A-330-RPI was developed as a compact industrial grade Box PC for the top hat rail, ideal for cost sensitive control and gateway applications.

The KBox A-330-RPI is supported by a huge software pool offered by the Raspberry Pi Community. Furthermore the Box PC is industrial grade and thanks to its fanless and compact design perfectly suited for control cabinet applications. The system offers numerous interfaces allowing for the connection of various communication layers. RS232/RS485 serial interfaces and the CAN bus expansion are provided for local data collection or linking up to the sensor- or machine environment.

► TECHNICAL INFORMATION

PROCESSOR CPU BROADCOM BCM283780 Quad Core Arm® A53 PLATFORM CONTROLLER HUB MEMORY TECHNOLOGY CAPACITY Integrated LPDDR2 1 GB, soldered GRAPHICS GRAPHICS ENGINE VideoCore IV OpenGL-E5 1.1/2.0, Full HD 250MHz FRONT I/O USB ETHERNET SERIAL PORTS OTHERS REAR I/O GRAPHICS PORTS Micro HDMI STORAGE INTERNAL DRIVES MicroSD Card or internal eMMC (8, 32 GByte, others on project request) SOFTWARE SUPPORT LINUX Raspbian MECHANICAL CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING ENVIRONMENT OPERATING TEMPERATURE RELATIVE HUMIDITY OPERATING SHOCK ALTITUDE POWER SUPPLY INPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO) LENDING COELING LINES SYSTEM CHIPSET Integrated LINDS (LPDDR2 1 GB, soldered LORDS (IR JB, soldered Soldered Soldered Coll HD 2 x USB 20, 1x USB 0TG (only for programming eMMC) 2x Fast Ethernet 1x R5232, 1x R5485, 1x CAN 4x Digital IOS AKS 4585, 1x CAN 4x Digital IOS STORAGE HOMEN MICROSD Card or internal eMMC (8, 32 GByte, others on project request) Stainless steel Fanless Fanless Till x 25 x 76 mm Approx. 0.26 kg for mounting on 35mm mounting rail acc. to EN 60715 OPERATING TEMPERATURE RELATIVE HUMIDITY OPERATING SUBRATION OPERATING SUBRATION OPERATING SUBRATION OPERATING SUBRATION OPERATING SHOCK ALTITUDE NPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO) CERTIFICATIONS CE			
### TECHNOLOGY CAPACITY GRAPHICS GRAPHICS = GRAPHICS ENGINE USB	PROCESSOR	CPU	BROADCOM BCM2837B0 Quad Core Arm® A53
GRAPHICS GRAPHICS ENGINE VideoCore IV OpenGL-ES 1.1/2.0, Full HD 250MHz FRONT I/O USB ETHERNET SERIAL PORTS OTHERS REAR I/O GRAPHICS PORTS INTERNAL DRIVES Micro HDMI STORAGE INTERNAL DRIVES MicroSD Card or internal eMMC (8, 32 GByte, others on project request) SOFTWARE SUPPORT LINUX Raspbian MECHANICAL CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING ENVIRONMENT OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING VIBRATION OPERATING SHOCK ALTITUDE NPUT VOLTAGE RANGE Z USB 2.0, 1x USB OTG (only for programming eMMC) 2x Fast Ethernet 1x PS 23, 1x PS 485, 1x CAN 4x Digital IOs Nicro HDMI Stainless Steel Fanless 111 x 25 x 76 mm Approx. 0,26 kg for mounting on 35mm mounting rail acc. to EN 60715 OPERATING TEMPERATURE RELATIVE HUMIDITY OPERATING SHOCK ALTITUDE POWER SUPPLY INPUT VOLTAGE RANGE Z 4 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	PLATFORM CONTROLLER HUB	SYSTEM CHIPSET	Integrated
FRONT I/O USB ETHERNET SERIAL PORTS OTHERS REAR I/O GRAPHICS PORTS Micro HDMI STORAGE INTERNAL DRIVES MicroSD Card or internal eMMC (8, 32 GByte, others on project request) MicroSD Card or internal eMMC (8, 32 GByte, others on project request) SOFTWARE SUPPORT LINUX Raspbian MECHANICAL CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING ENVIRONMENT OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING VIBRATION OPERATING SHOCK ALTITUDE NUMBERS SUPPLY INPUT VOLTAGE RANGE 2x USB 2.0, 1x USB OTG (only for programming eMMC) 2x Fast Ethernet 1x RS232, 1x RS485, 1x CAN 4x Digital IOS Micro HDMI Strorb Dard or internal eMMC (8, 32 GByte, others on project request) Stainless steel Fanless 111 x 25 x 76 mm Approx. 0.26 kg for mounting on 35mm mounting rail acc. to EN 60715 0 °C to +55 °C (32 °F to 131 °F) -20 °C to +50 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 5-500 Hz, IG acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27 5000 m (16400 ft) POWER SUPPLY INPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	MEMORY		
ETHERNET SERIAL PORTS OTHERS REAR I/O GRAPHICS PORTS OTHERS Micro HDMI STORAGE INTERNAL DRIVES Micro HDMI STORAGE INUX Raspbian CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING ENVIRONMENT OPERATING TEMPERATURE STORAGE TEMPERATURE STORAGE TEMPERATURE STORAGE TEMPERATURE OPERATING VIBRATION OPERATING VIBRATION OPERATING SHOCK ALTITUDE ALTITUDE Zx Fast Ethernet 1x RS.232, 1x RS485, 1x CAN 4x Digital IOs Micro HDMI Micro HDMI Micro HDMI Micro HDMI Stainless Steel Fantless 111 x 25 x 76 mm Approx. 0, 26 kg for mounting on 35mm mounting rail acc. to EN 60715 O°C to +55 °C (32 °F to 131 °F) -20 °C to +80 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 93% @ 40 °C, non-condensing OPERATING SHOCK ALTITUDE POWER SUPPLY INPUT VOLTAGE RANGE Zx Fast Ethernet 1x RS.232, 1x RS485, 1x CAN 4x Digital IOs Stainless steel Fantless 111 x 25 x 76 mm Approx. 0, 26 kg for mounting on 35mm mounting rail acc. to EN 60715 O°C to +55 °C (32 °F to 131 °F) -20 °C to +80 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing OPERATING SHOCK ALTITUDE POWER SUPPLY INPUT VOLTAGE RANGE Z4 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	GRAPHICS	GRAPHICS ENGINE	VideoCore IV OpenGL-ES 1.1/2.0, Full HD 250MHz
STORAGE INTERNAL DRIVES MicroSD Card or internal eMMC (8, 32 GByte, others on project request) SOFTWARE SUPPORT LINUX Raspbian CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING ENVIRONMENT OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING VIBRATION OPERATING SHOCK ALTITUDE Note of the story of the st	FRONT I/O	ETHERNET SERIAL PORTS	2x Fast Ethernet 1x RS232, 1x RS485, 1x CAN
SOFTWARE SUPPORT LINUX Raspbian CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING CONSTRUCTION Stainless steel Fanless Fanless Approx. 0,26 kg for mounting on 35mm mounting rail acc. to EN 60715 ENVIRONMENT OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING VIBRATION OPERATING SHOCK ALTITUDE O °C to +55 °C (32 °F to 131 °F) -20 °C to +80 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 5-500 Hz, 1G acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27 5000 m (16400 ft) POWER SUPPLY INPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	REAR I/O	GRAPHICS PORTS	Micro HDMI
MECHANICAL CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING DOPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK ALTITUDE POWER SUPPLY Stainless steel Fanless Fanless 111 x 25 x 76 mm Approx. 0,26 kg for mounting on 35mm mounting rail acc. to EN 60715 O °C to +55 °C (32 °F to 131 °F) -20 °C to +80 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 5-500 Hz, 1G acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27 5000 m (16400 ft) POWER SUPPLY INPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	STORAGE	INTERNAL DRIVES	MicroSD Card or internal eMMC (8, 32 GByte, others on project request)
COOLING DIMENSIONS (HxWxD) WEIGHT Approx. 0,26 kg MOUNTING ENVIRONMENT OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK ALTITUDE O ° C to +55 ° C (32 °F to 131 °F) -20 ° C to +80 ° C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 5-500 Hz, 1G acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27 5000 m (16400 ft) POWER SUPPLY INPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	SOFTWARE SUPPORT	LINUX	Raspbian
STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK ALTITUDE STORAGE TEMPERATURE RELATIVE HUMIDITY 93% @ 40 °C, non-condensing 5-500 Hz, 1G acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27 5000 m (16400 ft) POWER SUPPLY INPUT VOLTAGE RANGE 24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)	MECHANICAL	COOLING DIMENSIONS (HxWxD) WEIGHT	Fanless 111 x 25 x76 mm Approx. 0,26 kg
	ENVIRONMENT	STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK	-20 °C to +80 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 5-500 Hz, 1G acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27
APPROVALS CERTIFICATIONS CE	POWER SUPPLY	INPUT VOLTAGE RANGE	24 V DC (+-20 %), typ. 5 W, max 12 W (without digital IO)
	APPROVALS	CERTIFICATIONS	CE

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► ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
KBOX A-330 RASPBERRY PI	KBox A-330-RPI	Raspberry Pi CM3+ lite based: 1 G RAM, no eMMC, SD card slot, 2x USB 2.0, 2x Fast Ethernet, RS232, CAN or RS485, 4x Dig-IO, uHDMI, DIN rail housing
	KBox A-330-RPI-8	Raspberry Pi CM3+ based: 1 G RAM, 8 GByte eMMC, 2x USB 2.0, 2x Fast Ethernet, RS232, CAN or RS485, 4x Dig-IO, uHDMI, DIN rail housing
	KBox A-330-RPI-32	Raspberry Pi CM3+ based: 1 G RAM, 32 GByte eMMC, 2x USB 2.0, 2x Fast Ethernet, RS232, CAN or RS485, 4x Dig-IO, uHDMI, DIN rail housing

► YOUR CONTACT

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